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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,001	02/08/2002	Billy Hogan	HWB 2380-604	6407
23117 7590 04/16/2007 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			EXAMINER	
			NGUYEN, KHAI MINH	
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			2617	
				
SHORTENED STATUTORY PER	IOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/068,001	HOGAN ET AL.
Office Action Summary	Examiner	Art Unit
	Khai M. Nguyen	2617
The MAILING DATE of this commun Period for Reply	nication appears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE N - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If NO period for reply is specified above, the maximum st - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF THIS COMMUNICATE of 37 CFR 1.136(a). In no event, however, may a representation. It is a part of the statutory period will apply and will expire SIX (6) MONTH will, by statute, cause the application to become ABA	ATION. ly be timely filed IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		,
3) Since this application is in condition	2b)⊠ This action is non-final.	•
Disposition of Claims		
4) Claim(s) <u>1-19,42-72 and 87-89</u> is/ar 4a) Of the above claim(s) is/a 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-6,15,16,18,42-45,50,51,3</u> 7) Claim(s) <u>7-14,17,19,46-49,52-53,60</u> 8) Claim(s) are subject to restrict	are withdrawn from consideration. 54-59,66-69,71 and 87-89 is/are reject 0-65,70 and 72 is/are objected to.	ed.
Application Papers		
9) The specification is objected to by the 10) The drawing(s) filed on is/are Applicant may not request that any objection.	: a) accepted or b) objected to by oction to the drawing(s) be held in abeyance the correction is required if the drawing(s)	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies	documents have been received. documents have been received in Appendix of the priority documents have been received in Appendix December 17.2(a)).	plication No eceived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (I 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		Mail Date ormal Patent Application

Art Unit: 2617

DETAILED ACTION

Response to Arguments

1. Applicant's argument with respect to claim 1-19, 42-72 and 87-89 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 15-16, 18, 42-45, 50-51, 54-59, 66-69, 71 and 87-89 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koo et al. (U.S.Pat-6889040) in view of Mouly et al. (U.S.Pat-7184771).

Regarding claim 1, Koo teaches a telecommunications network comprising a radio access network which generates and transmits (fig.1), in a broadcast channel over an air interface (fig.1, element 14, 16), an access group eligibility message which enables a user equipment unit (fig.1, mobile station 12) which receives the access group eligibility message to make a determination whether the user equipment unit is eligible to operate in a cell for which the access group eligibility message is transmitted (fig.1-2, abstract, col.1, lines 48-54), the determination involving a comparison of access group eligibility information transmitted in the access group message and an access group classification (fig.1-2, abstract, col.1, lines 48-54)

Art Unit: 2617

Koo fails to specifically disclose the access group classification having been generated by a core network node, which classified the user equipment unit into at least one of plural access groups. However, Mouly teaches the access group classification having been generated by a core network node (fig.1, core network 3, abstract, col.4, lines 17-27, claims 7 and 13), which classified the user equipment unit into at least one of plural access groups (abstract, col.2, line 39 to col.4, line 4, claim 13). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Mouly with Koo to provide a method for supplying services to mobile station.

Regarding claim 2, Mouly and Koo further teach the apparatus of claim 1, wherein the access group eligibility message indicates what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, fig.1-2, abstract, col.1, lines 48-54).

Regarding claim 3, Mouly and Koo further teach the apparatus of claim 1, wherein the access group eligibility message indicates what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, abstract, see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 4, Mouly and Koo further teach the apparatus of claim 1, wherein the access group eligibility message includes a bitmap which indicates eligibility for plural access groups (see Koo, fig.2, col.2, lines 31-60).

Art Unit: 2617

Regarding claim 5, Mouly and Koo further teach the apparatus of claim 1, wherein a radio access network node transmits the access group eligibility message (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13), and further comprising a core network node (see Mouly, fig.1, core network 3) which, upon receipt of a location update request for the user equipment unit (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13), classifies the user equipment unit in at least one of plural access groups (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13) and generates for transmission to the user equipment unit through a radio access network an access group classification message which advises the user equipment unit as to which of the plural access groups the user equipment unit belongs (see Koo, abstract, see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 6, Mouly and Koo further teach the apparatus of claim 5, wherein the user equipment unit stores an access group classification obtained from the access group classification message in a memory at the user equipment unit (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 15, Mouly and Koo further teach the apparatus of claim 1, wherein the access group classification message is one of a location update response (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13) and a location update reject message (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13), which includes the access group classification (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Art Unit: 2617

Regarding claim 16, Mouly and Koo further teach the apparatus of claim 1, wherein the access group classification message is one of a location update response (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13) and a location update reject message which includes the access group classification and a version field associated with the access group classification (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 18 is rejected with the same reasons set forth in claim 16.

Regarding claim 42, Koo teaches a user equipment unit which receives over an air interface an access group classification message (fig.1) and an access group eligibility message (fig.1, element 14, 16, abstract), the access group classification message being generated by a core network node for advising the user equipment unit (fig.1, mobile station 12) as to which of the plural access groups the user equipment unit belongs (fig.1-2, abstract, col.1, lines 48-54), the access group eligibility message being generated by a radio access network node for specifying eligibility of plural access groups to operate in a cell for which the access group eligibility message is transmitted (fig.1-2, abstract, col.1, lines 48-54), the user equipment unit comprising:

compares the stored access group classification with contents of the access group eligibility message to determine whether the user equipment unit is allowed access to the cell for which the access group eligibility message is transmitted (fig.1-2, abstract, col.1, lines 48-54).

Art Unit: 2617

Koo fails to specifically disclose an access controller, which stores an access group classification obtained from the access group eligibility message. However, Mouly teaches an access controller (fig.1, core network 3, abstract, col.4, lines 17-27, claims 7 and 13), which stores an access group classification obtained from the access group eligibility message (abstract, col.2, line 39 to col.4, line 4, claim 13). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Mouly with Koo to provide a method for supplying services to mobile station.

Regarding claim 43, Mouly and Koo further teach the apparatus of claim 42, wherein the access group eligibility message indicates what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, fig.1-2, abstract, col.1, lines 48-54).

Regarding claim 44, Mouly and Koo further teach the apparatus of claim 42, wherein the access group eligibility message indicates what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 45, Mouly and Koo further teach the apparatus of claim 42, wherein the access group eligibility message includes a bitmap which indicates eligibility for plural access groups (see Koo, fig.2, col.2, lines 31-60).

Regarding claim 50, Mouly and Koo further teach the apparatus of claim 42, wherein the access group classification message is one of a location update response

Art Unit: 2617

(see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13) and a location update reject message which includes the access group classification (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 51, Mouly and Koo further teach the apparatus of claim 42, wherein the access group classification message includes the access group classification (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13) and a version field associated with the access group classification (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 54, Koo teaches a method of operating a telecommunications network comprising:

Transmitting (fig.1, base station 10, mobile station 12), in a broadcast channel over an air interface (fig.1), an access group eligibility message generated by a radio access network (fig.1-2, abstract);

a user equipment unit (fig.1, mobile station 12) which receives the access group eligibility message (fig.1-2, abstract) and which user the access group eligibility message to make determination whether the user equipment unit (fig.1, mobile station 12) is eligible to operate in a cell for which the access group eligibility message is transmitted (fig.1-2, abstract), involving a comparison of access group eligibility information transmitted in the access group message (fig.1-2, abstract) and

Koo fails to specifically disclose an access group classification, which is generated by a core network. However, Mouly teaches an access group classification

Art Unit: 2617

which is generated by a core network (fig.1, core network 3, abstract, col.2, line 39 to col.4, line 4, claim 13). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Mouly with Koo to provide a method for supplying services to mobile station.

Regarding claim 55, Mouly and Koo further teach the method of claim 54, further comprising including in the access group eligibility message an indication of what subscriber groups are eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, fig.1-2, col.1, lines 48-54).

Regarding claim 56, Mouly and Koo further teach the method of claim 54, further comprising including in the access group eligibility message an indication of what restriction groups are not eligible to operate in the cell for which the access group eligibility message is transmitted (see Koo, abstract, see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 57, Mouly and Koo further teach the method of claim 54, further comprising including in the access group eligibility message a bitmap which indicates eligibility for plural access groups (see Koo, fig.2, col.2, lines 31-60).

Regarding claim 58 is rejected with the same reasons set forth in claim 5.

Regarding claim 59 is rejected with the same reasons set forth in claim 6.

Regarding claim 66, Mouly and Koo further teach the method of claim 54, further comprising:

Art Unit: 2617

upon the user equipment unit entering a new cell which involves a transition to a new location area (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13), checking the access group eligibility message transmitted for the new cell (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13); and

comparing the stored access group classification with contents of the access group eligibility message to determine whether the user equipment unit is allowed access to the new cell (see Koo, abstract, see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 67, Mouly and Koo further teach the method of claim 66, further comprising, upon the user equipment unit entering a new cell which does not involve a transition to a new location area (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13), the user equipment unit not checking the access group eligibility message (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 68, Mouly and Koo further teach the method of claim 54, wherein the access group classification message is one of a location update response (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13) and a location update reject message which includes the access group classification (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Regarding claim 69 is rejected with the same reasons set forth in claim 18.

Regarding claim 71 is rejected with the same reasons set forth in claim 18.

Art Unit: 2617

Regarding claims 87-89, Mouly and Koo further teach the apparatus of claims 1, 42 and 54, where the access group eligibility information comprises a subscriber group having a composition pre-agreed with a network operator (see Mouly, abstract, col.2, line 39 to col.4, line 4, claim 13).

Allowable Subject Matter

3. Claims 7-14, 17,19, 46-49, 52-53, 60-65, 70 and 72 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khai M. Nguyen whose telephone number is 571.272.7923. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph feild can be reached on 571.272.4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Khai Nguyen

Au: 2617

4/3/2007

SUPERVISORY PATENT EXAMINER